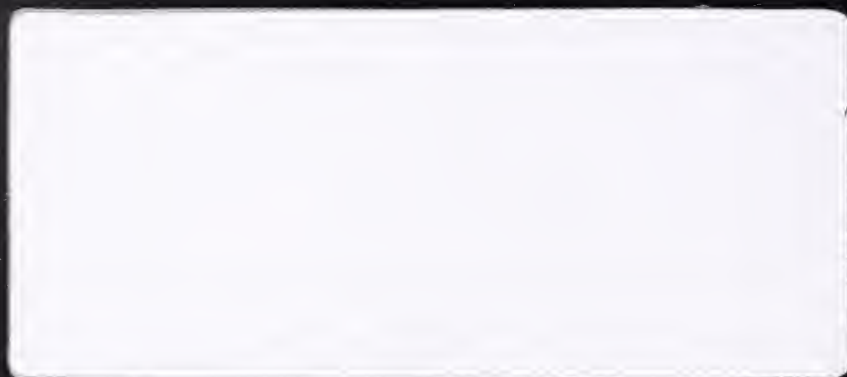


Object-Oriented
Technologies and
Client/Server Systems





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***Object-Oriented Technologies and Client/Server
Systems***

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Object-Oriented Technologies and Client/Server Systems

MMONb-1

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Notes:

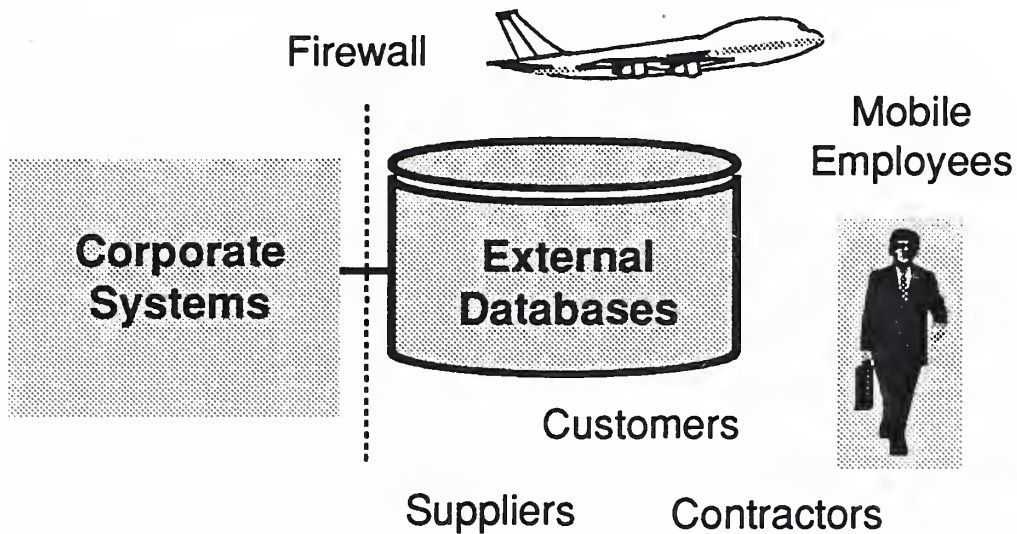
Peter Cunningham President and CEO INPUT

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Notes:

Re-engineering Enterprise Systems

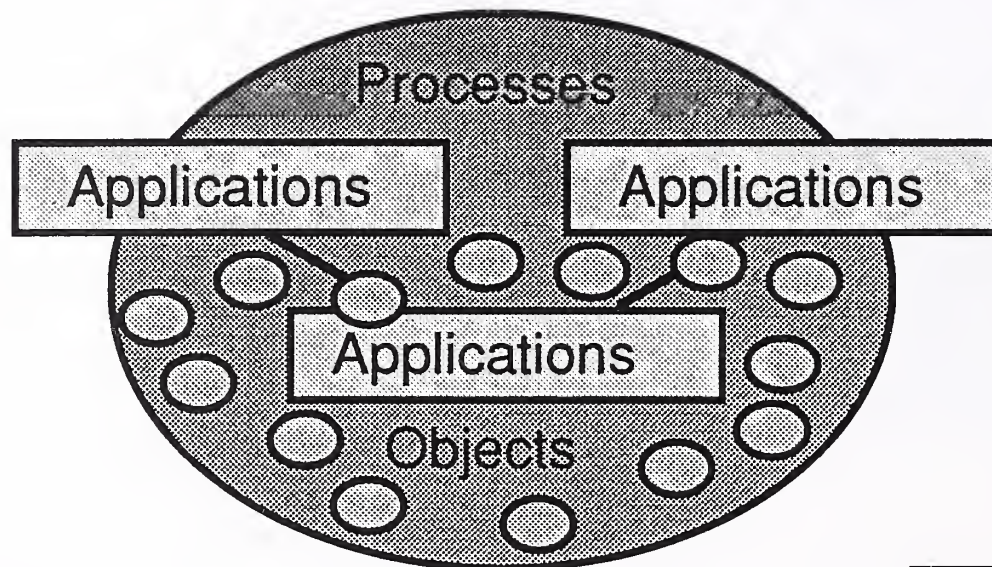


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Notes:

Emphasis on Business Processes

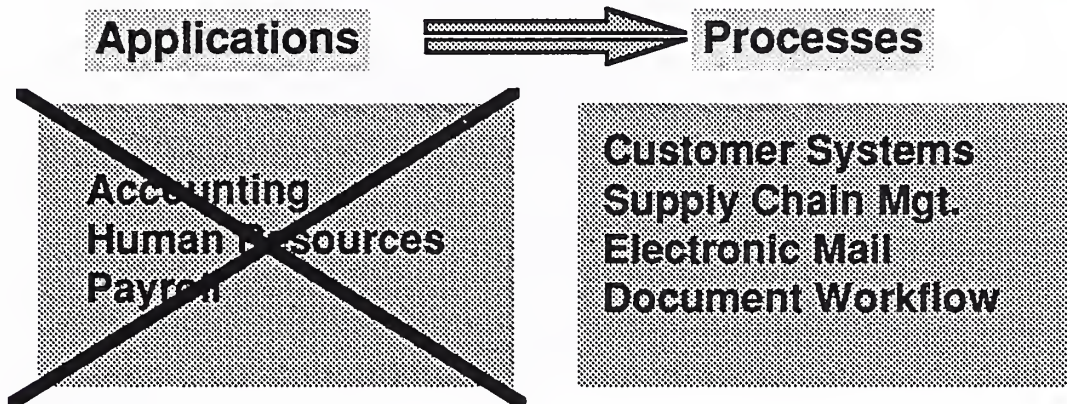


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Notes:

Mission Critical Systems

“The Network is The Computer” Sun Microsystems



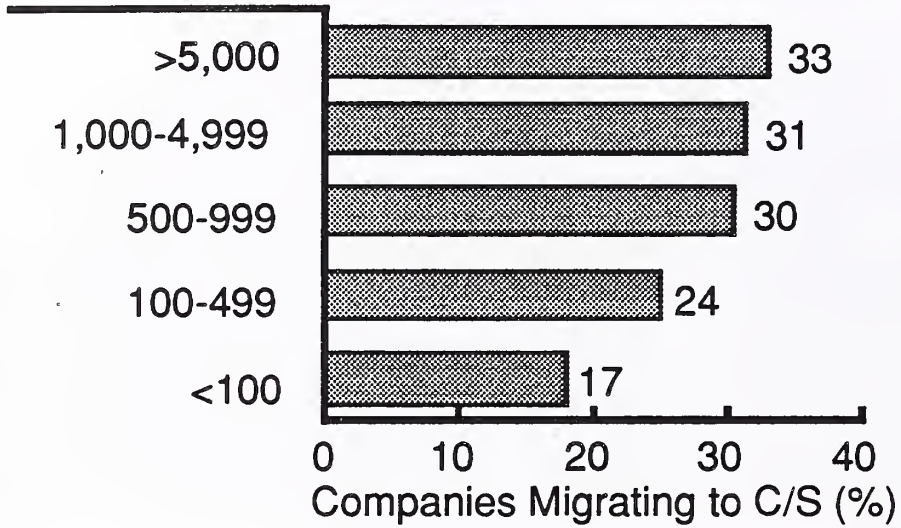
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Notes:

C/S Varies With Company Size

Revenues (\$M)

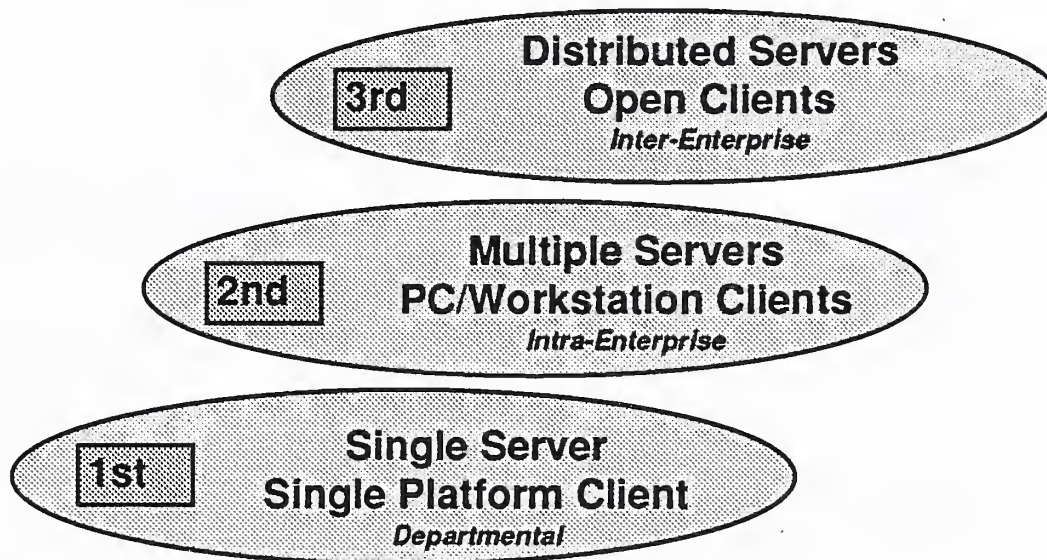


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Notes:

Three Generations Of Client/Server



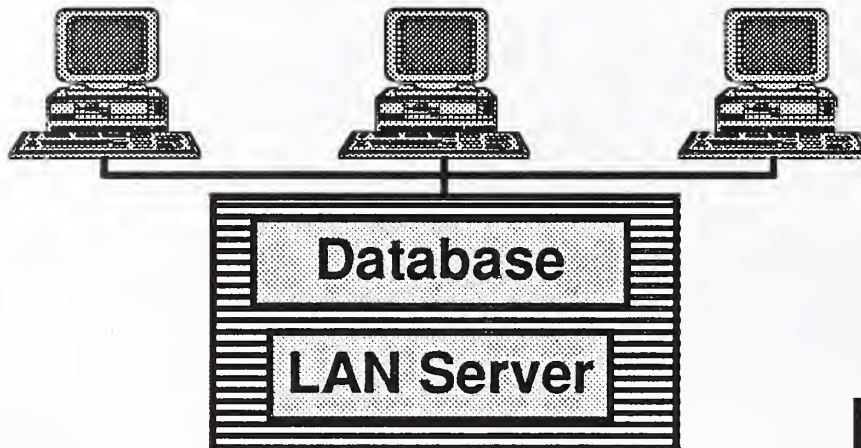
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Notes:

First Generation Example

- Small Workgroup Database
- Branch Offices and Departments



MMONb-8

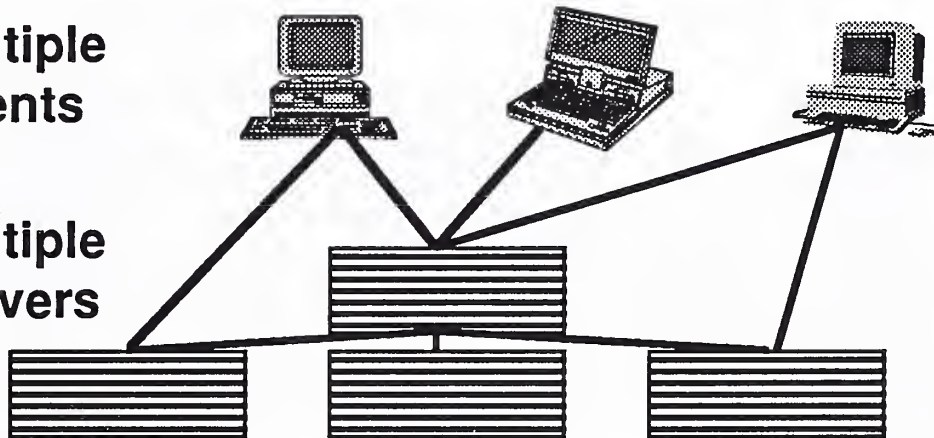
Notes:

Second Generation Example

- Windows, MacOS, UNIX, NeXTSTEP Clients
- Application, Communications, Image, Database Servers

**Multiple
Clients**

**Multiple
Servers**



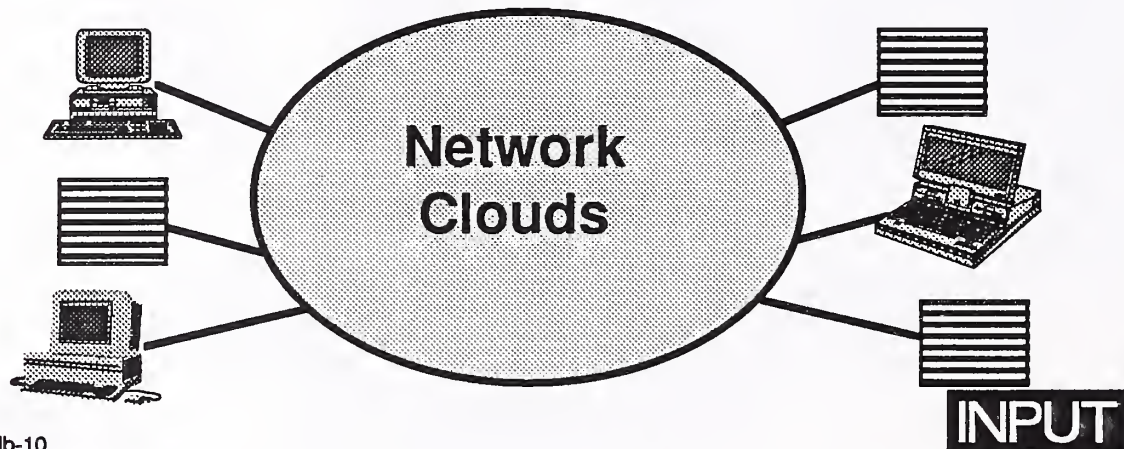
MMONb-9

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Notes:

Third Generation Example

- Public and Private Messaging Services
- Smart Agents and Scripts Navigate Networks



Notes:

Enterprise System Development



MMONb-11

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Notes:

Business Objects

- CASE for component software builders
- Model business processes with objects
 - Forms, customers, goods, accounts, dates
- December 1993 - Object Management Group formed Business Objects subcommittee (BOM SIG)
- Currently too low level for most users

MMONb-12

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Notes:

Layers of Objects on the Desktop

- Document-centric user interfaces
- Animation and video
- Software component architecture

Integrated Desktop Packages and Suites

Applets - QuickTime for Video, MS Graph

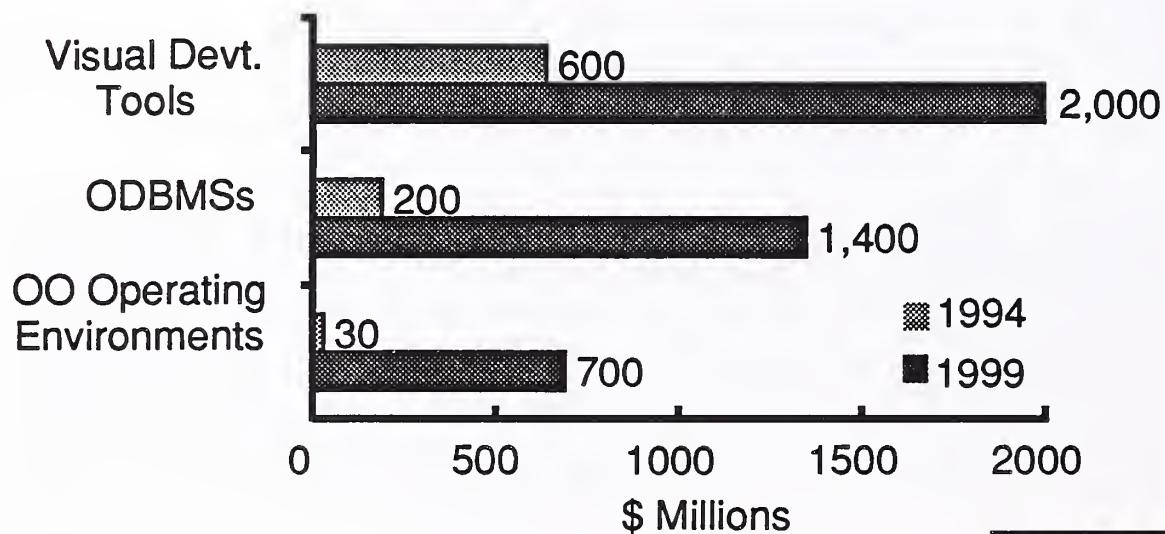
Object-oriented Platforms - OLE, Taligent, NeXT

MMONb-13

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Notes:

U.S. Market Forecast



MMONb-14

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Notes:

User Trends

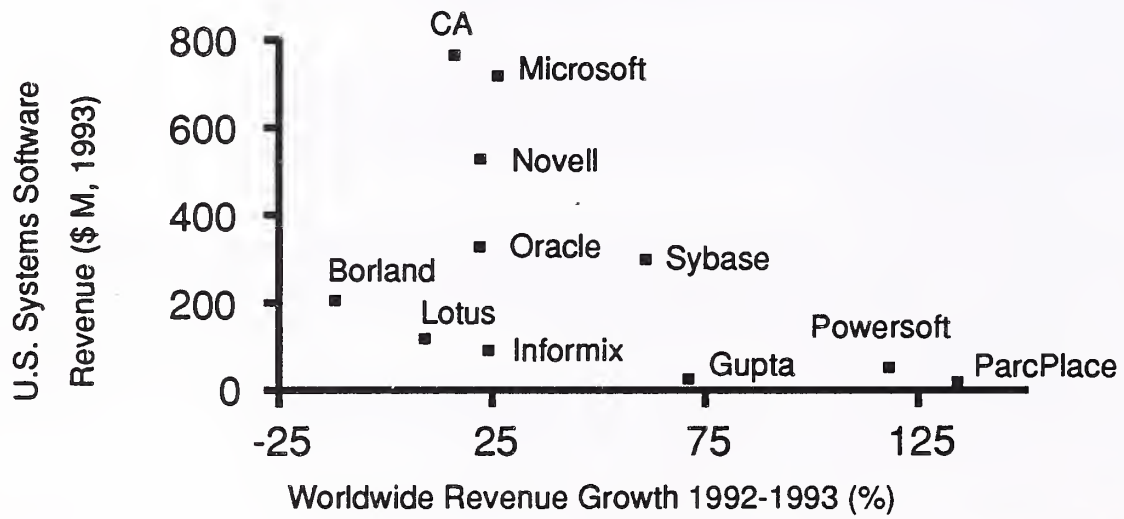
- IS departments manage the infrastructure
- User groups and system integrators develop applications
- Knowledge workers develop customized interfaces with products like Microsoft Excel, Q&E, Lotus Approach, Claris FileMaker
- Higher support costs, lower product costs

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Notes:

Growth of Leading Vendors



MMONb-16

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Notes:

Hardware Vendor Trends

- Hewlett-Packard
 - Heavy object emphasis - Distributed Smalltalk, Taligent investment, reselling NEXTSTEP
- IBM
 - Rewrite of AS/400 operating system using objects
 - PowerPC with Apple and Motorola
- Sun Microsystems
 - Collaboration with NeXT for distributed objects

MMONb-17

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Notes:

Database Vendor Trends

- Informix
 - Strong vertical market emphasis
- Oracle
 - Emphasizing own client development tools - CDE
 - Multimedia and video servers
- Sybase
 - Aiming for enterprise and low-end
 - Merging with Powersoft

MMONb-18

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Notes:

Outlook for Client Platforms

- 1995
 - Windows95, PowerPC
 - Desktop video, animated user interfaces
 - Mobile clients - PDAs, cellular phones
- 1999
 - Diverse object-oriented environments
 - Information appliances
 - Office PC - 64MB, multiple displays

MMONb-19

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Notes:

Outlook for Server Platforms

- 1995
 - Windows NT gains market share
 - High availability clusters
- 1999
 - Software frameworks span servers
 - Security, system administration
 - Messaging, scheduling, databases
 - Palmtop to enterprise scalability

MMONb-20

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Notes:

Outlook for Business Objects

- 1995
 - Microsoft's Line-of-Business objects
 - Microsoft OLE and OMG CORBA interfaces
 - Multiple standards
 - Emerging tools and methodologies
- 1999
 - Business object standards solidify

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Notes:



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